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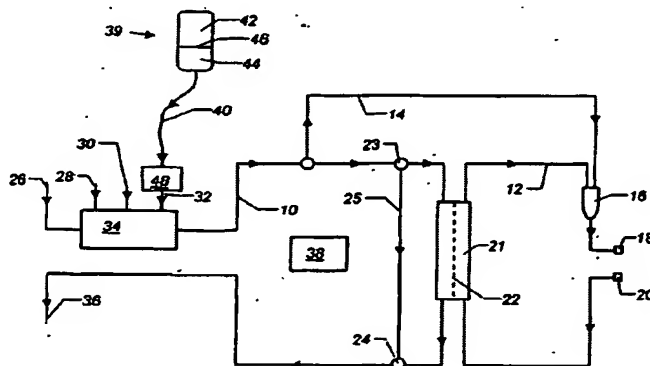
(43) International Publication Date
31 March 2005 (31.03.2005)

PCT

(10) International Publication Number
WO 2005/028001 A1

- (51) International Patent Classification⁷: **A61M 1/14**, (74) Agents: **BERGLUND, Stefan et al.**; Bjerkéns Patentbyrå KB, Östermalmsg. 58, S-114 50 Stockholm (SE).
- (21) International Application Number: **PCT/SE2004/001313**
- (22) International Filing Date:
13 September 2004 (13.09.2004)
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
0302520-2 23 September 2003 (23.09.2003) SE
60/505,762 26 September 2003 (26.09.2003) US
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- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- Published:
— with international search report
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **AN APPARATUS, A SYSTEM AND A METHOD RELATING TO HEMODIALYSIS, HEMODIAFILTRATION, HEMOFILTRATION OR PERITONEAL DIALYSIS**



(57) **Abstract:** The invention relates to an apparatus for hemodialysis, hemodiafiltration, hemofiltration or peritoneal dialysis. The apparatus comprises at least one conduit (10, 14) in which a dialysis and/or infusion fluid is intended to flow. The apparatus has a measurement unit (48) for measuring at least one optically active substance in the fluid. The measurement unit (48) is arranged to measure the concentration of the substance in said fluid by measuring the influence said substance in the fluid has on a polarised beam of light which is transmitted through said fluid. The invention also concerns a system including such an apparatus as well as a method of carrying out a measurement of the concentration of an optically active substance in a dialysis and/or infusion fluid.